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**PHOTOGRAPHIC
INTERPRETATION
REPORT**

**NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER**

**STATUS OF SA-2 SITES
NORTH KOREA**

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STATUS OF SA-2 SITES, NORTH KOREA

ABSTRACT

1. This report includes information on the status of SA-2 missile facilities in North Korea derived from KEYHOLE photography obtained between [redacted] [redacted] The report contains text, two location maps, four photographs, and two tables.

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INTRODUCTION

2. Since the fall of 1971 North Korea has expanded its SA-2 missile forces from a limited point defense of strategic areas to almost complete peripheral coverage of the country. Significant developments observed on photography between April 1972 and February 1973 are the identification of two new SA-2 sites, the occupation of four previously identified sites, the identification of three new SA-2 support facilities, the construction of concrete-lined, drive-through vehicle storage buildings at four SA-2 support facilities, and the identification of four new alternate SA-2 sites. By February 1973 active, occupied SA-2 sites in North Korea had increased to 34 with nine support facilities (Tables 1 and 2). This represents an increase of six occupied sites and three support facilities since April 1972 or an increase of 20 sites and five support facilities since the fall of 1971 (Figures 1 and 2).

BASIC DESCRIPTION

3. Two new occupied SA-2 sites were identified on photography [redacted] [redacted] These are Hoeyang A10-2 [redacted] Figure 3), a three-position site which is just north of the demilitarized zone (DMZ), and Kanggye A09-2 [redacted], 19 nautical miles (nm) southeast of the Sino-Korean border.

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4. Three new SA-2 support facilities were identified on photography of [redacted] These are Sepo-up [redacted] and Chongjin [redacted] and Kanggye [redacted] on [redacted]

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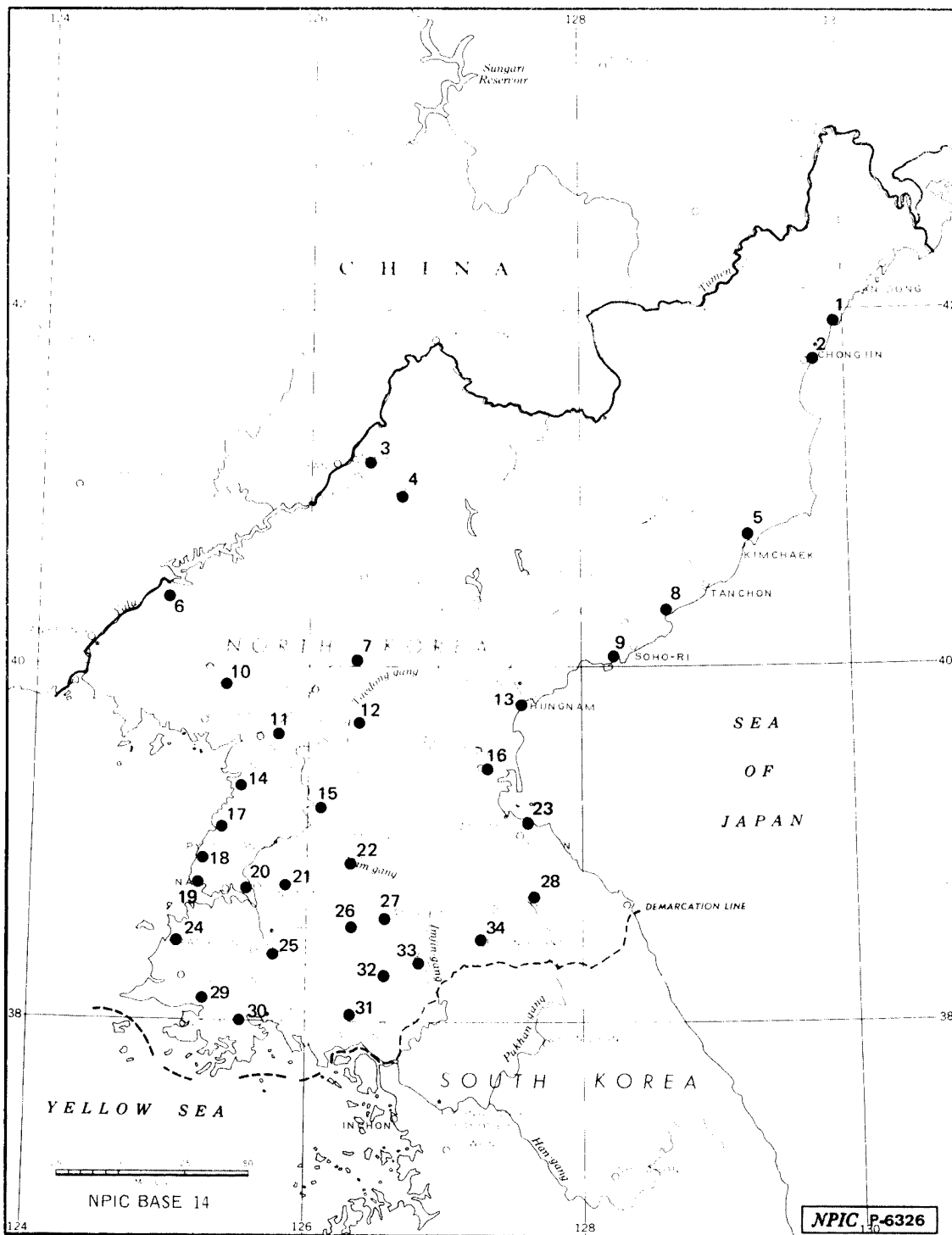


FIGURE 1. ACTIVE SA-2 SITES IN NORTH KOREA. (Item numbers keyed to Table 1)

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Table 1. Occupied SA-2 Sites in North Korea
(Item numbers keyed to Figure 1)

Item No.	Installation	Geographic Coordinates	Remarks	Item No.	Installation	Geographic Coordinates	Remarks
1	CHONGJIN B05-2	41-55-10N 129-56-00E		18	PYONGYANG C26-2	38-56-40N 125-15-00E	
2	CHONGJIN A22-2	41-41-50N 129-42-20E		19	NAMPO B10-2	38-48-45N 125-08-23E	
3	MANPO-UP A07-2	41-11-29N 126-23-45E		20	PYONGYANG B23-2	38-48-00N 125-27-50E	
4	KANGGYE A09-2	40-58-15N 126-37-20E	Newly identified on [redacted]	21	PYONGYANG B17-2	38-45-34N 125-51-16E	
5	SONGJIN A01-2	40-44-10N 129-12-20E	Occupied for the first time on photography [redacted]	22	PYONGYANG C12-2	38-53-29N 126-12-07E	
6	NAMSAN-NLA10-2 (Figure 6)	40-25-03N 124-57-45E		23	WONSAN A10-2	39-08-36N 127-35-55E	
7	HUICHON A29-2	40-11-15N 126-10-45E		24	NAMPO C24-2	38-27-40N 124-59-30E	
8	KUNSON A01-2	40-21-00N 128-39-50E	The alternate site is Kunson A30-2 (BE [redacted] 40-20-59N 128-35-08E)	25	SARIWON A21-2	38-22-30N 125-40-05E	
9	SINPO A09-2	40-01-46N 128-13-30E		26	SARIWON C10-2	38-26-53N 126-13-55E	Reoccupied by [redacted]
10	TAECHON A27-2	39-54-40N 125-24-10E	The alternate site is Taechon A14-2 (BE [redacted] 39-53-18N 125-31-41E)	27	SINGYE A30-2	38-30-32N 126-28-55E	Occupied for the first time on photography [redacted]
11	SINANJU A07-2	39-38-40N 125-46-15E		28	HOEYANG A10-2 (Figure 3)	38-42-26N 127-38-37E	Newly identified [redacted], a three-position site
12	PUKCHANG-NLA05-2	39-38-32N 126-23-15E		29	TAETAN A01-2	38-08-50N 125-17-30E	
13	HUNGNAM A25-2	39-48-30N 127-32-42E	The alternate site is Hungnam B21-2 (BE [redacted] 39-40-15N 127-29-21E (Figure 4)	30	HAERU A27-2	38-01-43N 125-30-53E	
14	PYONGYANG C33-2	39-20-25N 125-31-25E		31	NUCHON-NLA22-2	38-07-13N 126-10-33E	
15	PYONGYANG C05-2	39-15-58N 126-06-37E		32	PYONGSAN A14-2	38-17-20N 126-26-50E	
16	HUNGNAM C22-2	39-29-07N 127-15-57E		33	ANHYOP A28-2	38-20-55N 126-49-40E	A three-position site
17	PYONGYANG C29-2	39-07-39N 125-17-58E	Reoccupied [redacted] the alternate site is Pyongyang B29-2 [redacted] 39-04-27N 125-25-31E	34	PYONGYANG A35-2	38-29-40N 127-15-29E	A reverted three-position site; reoccupied [redacted]

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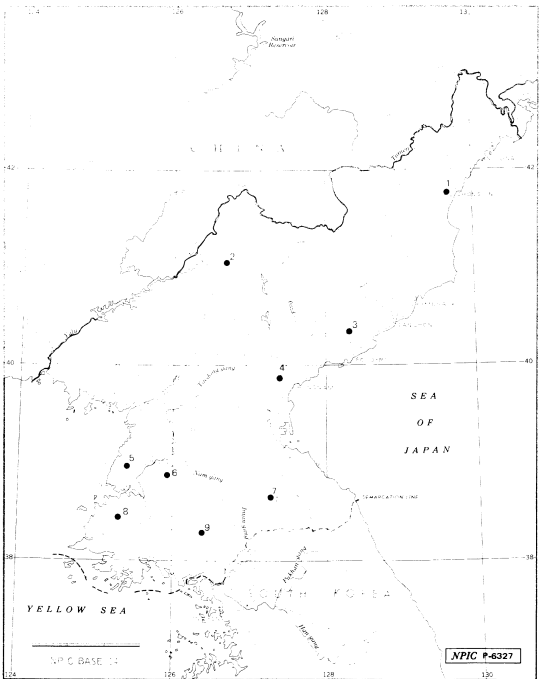


FIGURE 2. SA-2 SUPPORT FACILITIES IN NORTH KOREA. (Item numbers keyed to Table 2)

Table 2. SA-2 Support Facilities in North Korea
(Item numbers keyed to Figure 2)

Item No.	Installation	Geographic Coordinates	Remarks
1	CHOGJIN SAM SUPPORT FAC	41-44-31N 129-38-04E	Newly identified
2	KANGGYE SAM SUPPORT FAC	41-02-14N 126-40-29E	Newly identified
3	PUKCHONG SAM SUPPORT FAC	40-19-15N 128-17-50E	New concrete-lined, drive-through vehicle storage buildings under construction
4	HAMHUNG SAM SUPPORT FAC (Figure 5)	39-53-40N 127-21-00E	New concrete-lined, drive-through vehicle storage buildings under construction
5	KANGSO SAM SUPPORT FAC	39-00-20N 125-22-40E	New concrete-lined, drive-through vehicle storage buildings under construction
6	PYONGYANG SAM SUPPORT FAC	38-51-29N 125-53-48E	
7	SEPO-UP SAM SUPPORT FAC	38-40-17N 127-15-55E	Newly identified
8	ANAK-UP SAM SUPPORT FAC	38-25-30N 125-18-24E	New concrete-lined, drive-through vehicle storage buildings under construction
9	PYONGSAN SAM SUPPORT FAC	38-19-45N 126-18-30E	

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5. Four alternate SA-2 sites were also identified during this period. All were between four and nine nm from existing permanent sites at Kunson A01-2 [redacted], Taechon A27-2 [redacted] Hungnam A25-2 [redacted] [redacted] and Pyongyang C29-2 [redacted]. These alternate sites (Figure 4) were typical of field expedient sites. Partially revetted launch positions were observed at only two of the sites. A full complement of equipment was never observed at these sites, and the equipment was subsequently returned to its respective permanent site. This activity probably represented a training/mobility exercise.

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6. Two of the old SA-2 sites, Pyongyang C29-2 [redacted] and Sariwon C10-2 [redacted], were observed to be unoccupied on photography [redacted] respectively. However, they were reoccupied on subsequent coverage.

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7. Construction of concrete-lined, drive-through vehicle storage buildings was observed at the SA-2 support facilities at Hamhung (Figure 5), Anak-up, Kangso, and Pukchong during the period. Similar construction has been observed at several armor installations and may represent a new trend in the North Korean vehicle storage concepts.

8. Pyongyang SAM Site A35-2 [redacted] was observed on photography [redacted]. This site, previously unoccupied and unrevetted, now consists of three occupied revetted launch positions and a central guidance area. Nearby, Pyongyang SAM Site A33-2 [redacted], a field deployed site, was observed on coverage of the same data and was unoccupied. Its status had not changed on subsequent observations. It is believed to have been abandoned in favor of the A35-2 site.

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9. Many North Korean SA-2 sites are situated in terrain which precludes a conventional layout. Figure 6 shows one of these terrain-dominated configurations.

10. Hukkyo-ri SAM Training/Support Facility [redacted] apparently has been abandoned. No SAM-related equipment has been observed here since [redacted]. This was one of the two locations where large quantities of SA-2 equipment was observed in the fall of 1971.

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11. Construction on Changjin-up SAM Site A23-2 [] appears to have stopped. The site, newly identified on photography [] [], was in the mid-stage of construction. No change in status was observed on subsequent coverage acquired []

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12. All but three North Korean SA-2 battalions are deployed in six-position sites. The three exceptions are just north of the DMZ and are three-position sites. The normal complement of equipment of a battalion consists of six launchers (two loaded with missiles), seven missile transporters, a FAN SONG guidance radar, and an acquisition radar. The three-position sites maintain an inventory of only three launchers (two loaded with missiles), three or four missile transporters, and a FAN SONG radar.

REFERENCE

NPIC. [] Photo Interpretation Report, SA-2 STATUS, NORTH KOREA, May 72. (TOP SECRET RUFF [])

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